

BABENKO, S.F., inzh.; SHLEZING, M.Sh., inzh.; POLUYANSKIY, S.A., kand.  
tekhn.nauk; DIKHTYAR, A.A., inzh.; KUKHARENKO, V.P., inzh.

Study of the 2PPN-1 rock loader. Vop. rud. transp. no.7:288-300  
(MIRA 16:9)  
'63.

1. Krivorozhskiy zavod gornogo oborudovaniya "Kommunist" (for  
Babenko, Shlezinger). 2. Otdeleniye gornorudnykh problem Instituta  
elektrotekhniki AN UkrSSR (for Poluyanskiy, Dikhtyar, Kukharenko).  
(Mining machinery--Testing)

L 05298-67 EWT(d)/EWT(m)/EWP(t)/ETI IJP(c) JD  
ACC NR: AR6031905 SOURCE CODE: UR/0058/66/000/006/H043/H044

AUTHOR: Babenko, S. P.; Blagosklonskaya, L. Ye.; Gershenson, Ye. M.;  
Orlov, L. A.; Litvak-Gorskaya, L. B.

TITLE: SHF semiconductor modulators

SOURCE: Ref. zh. Fizika, Abs. 6Zh304

REF SOURCE: Tr. I-y Mezhvuz. konferentsii ped. in-tov po radiofiz. i spektro-skopii. M., 1965, 175-186

TOPIC TAGS: shf semiconductor modulator, injection, exclusion,  
magnetoconcentration effect, modulator

ABSTRACT: Control of Ge conductivity through the variation of the minority carrier concentration during injection, exclusion, and in the magnetoconcentration effect is investigated. To achieve adequate efficiency for a modulator using the increased carrier-concentration effect, resulting from the introduction of carriers through a p-n junction (injection), it is necessary to use a pure high-impedance material ( $\sim 50$  ohm. cm). Moreover, carrier concentration should vary in it 15--20 times, which corresponds to variations in resistivity from 50 to 3.5--2.5 ohm. cm. When use is made of the phenomenon of exclusion, which means that

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the specimen is deficient in minority carriers, a substantial variation in the impedance of high-resistance Ge can be produced by direct SHF-power heating. It is calculated that with the use of the magnetoconcentration effect with the specimen resistivity of over 45 ohm. cm, a diffusion length of 2-3 mm and recombination rates on the faces of  $S_2 \approx 100$  cm/sec and  $S_1 \approx 10^4 - 10^5$  cm/sec, the impedance is expected to vary by factors of 10-20 (with an increase in the total quantity of carriers) and by factors of 2-3 (with a decrease in the quantity of carriers). All these above-mentioned effects are recommended for use in the development of waveguide-type SHF modulators which, in principle, are absorption devices. Diagrams of the arrangement of thin Ge specimens in waveguides, as well as a block diagram of an experimental system, are given in the original article. A description is given of the methods of measuring the basic parameters of a modulator. G. Slobodenyuk. [Translation of abstract]

SUB CODE: 201

Cord 212 egk

BABENKO, V.

USER/Electronics

Card 1/1 Pub. 89 - 19/28

Authors : Babenko, V.

Title : Calculation of an output phase in frame scanning with transformer output

Periodical : Radio 4, 37-39, Apr 1955

Abstract : Problems of selecting and calculating output-phase in frame scanning having transformer output are discussed. Formulas are given for calculating the frame and field frequencies and a facsimile system. Table; graphs; diagrams; drawing.

Institution : .....

Submitted : .....

BABENKO, V., kand.tekhn.nauk

Wide-screen television. Radio no.1:24-25 Ja '63. (MIRA 16:1)  
(Television—Receivers and reception)

BABENKO, V.A., inzh.

Device for the prevention of clogging in the cyclones of gas pipe-  
dryers and control of their operation. Obog. i brik. ugl. no. 11:  
40-41 '59. (MIRA 13:6)  
(Coal preparation--Equipment and supplies)  
(Separators (Machines))

BABENKO, V.A., laureat Stalinskoy premii.

Problems of drop forging with hot-forging crankshaft presses. Avt.trakt.  
(MLRA 6:8)  
prom. no.7:24-27 J1 '53.

1. Moskovskiy zavod malolitrazhnykh avtomobiley.  
(Forging)

BABENKO, V. A.

USSR/Miscellaneous - Book review

Card 1/1 : Pub. 12 - 14/16

Authors : Babenko, V. A.

Title : Criticism and bibliography

Periodical : Avt. trakt. prom. 8, 32-33, Aug 1954

Abstract : A review is given of V. P. Chernichenko's book, "Stamping by Means of Power-driven Presses", Mashgiz, 1953. The book deals with basic technological processes in stamping operations and presents methods for blanking standard components.

Institution : .....

Submitted : .....

BABENKO, V.A., Laureat Stalinskoy premii

In regard to the discussion on "Planning large-size sections of  
cold stamping shops." Avt.i trakt.prom. no.8:34-35 Ag '57.  
(MIRA 10:12)

(Sheet-metal work)

AUTHOR: Babenko, V.A. SOV/113-58-4-13/21

TITLE: The Production of Drop-Forged Forgings Abroad (Proizvodstvo shtampovannykh pokovok za rubezhom)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 34-38 (USSR)

ABSTRACT: The article describes the organization and process of the production of drop-forged forgings for the automobile industry in the USA, England, West Germany, France and Sweden. West and East German installations and methods are compared in places. Developmental trends in the large industrial countries of the West in the field of forgings production are discussed individually. There are 5 tables.

1. Forgings--Production

Card 1/1

AUTHOR: Babenko, V.A. 707/113-58-12-16/17

TITLE: The 20th Anniversary of MASHGIZ (Dvadtsatiletive MASHGIZa)

PERIODICAL: Avtomobil'naya promyshlennost, 1958, Nr 12, p 43 (USSR)

ABSTRACT: In 1913, the Gostekhnizdat (State Technical Publishing House) was founded. In 1939, specialization made the foundation of the MASHGIZ (State Publishing House for Machine Building) necessary. In the first ten years, the house published 3,289 titles with a total of 16,611,000 copies. In the second ten years 7,500 titles with 66,281,000 copies were issued. The average issue was 6,000 copies per title in 1948, 13,600 in 1957, and 15,500 in 1958. Most titles concerned the technology of metals, followed by automobile manufacturing, machine-tool development, etc. The encyclopedic reference book "Machine Building" was published in 15 volumes, the "Reference Book of the Machine Builder" in 5 volumes, The "Reference Book of the Metallurgist" in 6 volumes, etc. From 1950-1958, more than 1,350 titles published by MASHGIZ were translated. The publishing house

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The 20th Anniversary of MASHGIZ

SOV/113-58-12-16/17

issues several journals with a total circulation of 1,400,000 copies. In 1959 the journals "Chemical Machine Building" and "Forging and Punching Production" will be published.

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## PART I BOOK INFORMATION

Sov/1586

"Practical Study Materials to Master 1 on "Drop Forging" (Handbook on Open and Closed Die Forging)" Sov/1586  
15,000 copies printed.

Author: M.V. Stoychev; M. (Lead book); S.S. Krasavov,  
Bogolyubov, Ed.; Publishing House: Bar Olimp, Bucharest; Ed.:  
V.P. Slobodnev, Publishing Ed. for Information Literature (Bucharest);  
V.I. Krjazov, Bucharest.

The handbook is intended for engineers and technical workers in forging.  
It may also be used by  
and die forging shops and in engineering design bureaus.  
Teachers and students of technical schools.

CONTENTS: The handbook contains information on processes of forged articles from  
forging and pressing technology. Information  
is given on various kinds of forging and pressing technology and their  
use in industrial industry. Basic quality inspection and mechanical  
heat treatment, and on engineering characteristics of basic machinery and mechanisms  
and equipment, as well as on methods and means of manufacture by forging and  
pressing. The authors claim that problems of manufacture by forging and especially  
those for which have only been discussed up to now in periodicals and special  
books and literature are given in this handbook. No plans, drawings  
and diagrams. Only one reference, all in Latin.

Sov/1586

Handbook on Open and Closed Die Forging  
Candidate of Technical Sciences (A.T. Belovitsky),  
Organization of the working place (A.T. Belovitsky), Candidate  
of Technical Sciences  
Arrangement of equipment and mechanization of operations  
Personnel of the working crew and safety techniques (A.T. Belovitsky),  
Candidate of Technical Sciences  
Preparation of the forging (process) Instruction sheet (A.T. Belovitsky),  
Candidate of Technical Sciences  
Standard of forging process (A.T. Belovitsky), Candidate of Technical  
Sciences  
Online forging and forging related to elongated forms (group 1)  
Round or square forgings in a plane or close to this form  
(group II)  
Forgings of intermediate size and combined configurations  
Forgings of closed die forging  
Special features of drop forging of nonferrous metals  
(A.T. Belovitsky) Candidate of Technical Sciences

On 12. Decades on Set Forging Creek Process (A. Makarov) and  
on 12/12  
Date 12/12

BABENKO, V.A.

Forging and stamping equipment abroad. Kuz.-shtam, proizv. l  
no.1:35-40 Ja '59. (MIRA 12:10)  
(Forging machinery) (Power presses)

BABENKO, V.A.

Heating of billets in forging shops abroad. Kuz.-shtam.proizv.  
1 no.6:33-38 Je '59. (MIRA 12:9)  
(Forging)

BABENKO, V.A.

"Forging technology" by A. M. Mansurov. Reviewed by V. A. Babenko.  
Kuz.-shtam. proizv. 3 no.11:45-46 N '61.  
(Forging) (Mansurov, A. M.)

SHAPOSHNIKOV, David Yefimovich; ARISTOV, V.M., kand. tekhn.nauk,  
retsenzent; BABENKO, V.A., inzh., red.; SIROTIN, A.I.,  
red. izd-va; UVAROVA, A.F., tekhn. red.; DEMKINA, N.F.,  
tekhn. red.

[Making forgings on hot-stamping presses] Izgotovlenie po-  
kovok na goriacheshtampovochnykh pressakh; opyt kuznechnogo  
tsekha Moskovskogo zavoda malolitrazhnykh avtomobilei. Mo-  
skva, Mashgiz, 1962. 178 p.  
(Forging) (Power presses)

(MIRA 15:11)

BABENKO, V.A.

Press forging equipment in West German plants. Kuz.-shtam.proizv.  
4 no.8:37-38 Ag '62. (MIRA 15:8)  
(Germany, West—Forging machinery)

3/080/62/035/004/011/022  
5217/D201

1.1300

AUTHORS: Melkov, M. P., Pankratov, M. P., and Babenko, V. A.

TITLE: Adhesion of iron coatings deposited from chlorinating electrolytes

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 4, 1962, 603-608

TEXT: Anodic treatment of components in a 30% sulphuric acid solution prior to hard iron deposition is known to be the most effective operation in preparing the metal surface to ensure subsequent satisfactory adhesion of the coating. However, in most cases it is also necessary to suspend the components in the plating bath without switching on the current, prior to electrodeposition. The initial current density used is 4 - 5 times lower than the working one and is increased to the nominal value with 3 - 5 minutes. The authors have expressed the opinion that suspending components in the bath without passing current serves the purpose of preheating the cathode layer of the electrolyte. This assumption is based on the fact that preheating the components in water prior to plating also

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S/030/62/035/004/011/022  
D217/D301

Adhesion of iron ...

ensures good adhesion to the deposit. The question arises to what temperature the cathode layer of electrolyte must be preheated. From experience it is known that good adhesion can be obtained at 50 - 60°C and lower temperatures. However, a bath maintained at 60°C is operated at a hydrochloric acid concentration of 2.5 - 3.0 g/l instead of 0.5 - 0.8 g/l, i.e. at concentrations suitable for a solution working at 80°C. In order to study the changes in electrolysis conditions in relation to electrolyte temperature, polarisation curves were plotted at 25, 40, 60 and 80°C, using an electrolyte containing 200 g/l  $\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$  and 0.8 g/l HCl. The electrolysis cell was placed in a thermostat; a 0.453 g steel plate of 1 cm<sup>2</sup> surface area was used as cathode, the anode being electrolytic iron. The cathode potential was measured against a saturated calomel electrode. It was found that adhesion of the coating to the base metal in the deposition of hard iron, using a deposition method developed at the Saratov Polytechnic Institute, exceeds 4500 kg/cm<sup>2</sup>. A qualitative relationship was found to exist between the adhesion of the coating on the one hand, and temperature and

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Adhesion of iron ...

S/080/62/035/004/011/022  
D217/D301

acidity of electrolyte on the other. A higher hydrogen current efficiency during the first moment of electrolysis was established to be necessary in order to activate the cathode surface. Finally, it was established that the optimum soaking period without passage of current in the iron plating bath at constant bath temperature is a function of the acidity of the electrolyte and diameter of the components. There are 3 figures and 6 Soviet-bloc references.

ASSOCIATION: Saratovskiy politekhnicheskiy institut (Saratov Polytechnic Institute)

SUBMITTED: April 15, 1961

Card 3/3

X

KUKHTAROV, V.I.; KAZAKOV, Yu.P., inzh., retsenzent; SEREP'YEV, V.V.,  
inzh., retsenzent; BARENKO, V.A., inzh., red.; MARKIZ, Yu.L.,  
red.izd-va; EL'KIND, V.D., tekhn. red.

[Cold stamping] Kholodnaia shtampovka. Moskva, Mashgiz, 1962.  
403 p. (MIRA 16:2)  
(Sheet-metal work)

FILIMONOV, Yu.F., inzh.; POZNYAK, L.A., kand. tekhn. nauk;  
MISOZHNIKOV, V.M., kand. tekhn. nauk, retezent; BABENKO,  
V.A., inzh., red.

[Forging by extrusion] Shtampovka pressovaniem. Moskva, Ma-  
shinostroenie, 1964. 187 p. (MIRA 17:5)

MANSUKOV, A.M.; ZHUKOV, A.A., inzh., retsenzent; BABENKO, V.A.,  
inzh., red.

[Mechanization and automation in forging] Mekhanizatsija  
i avtomatizatsija v kuznechnom proizvodstve. Moskva, Ma-  
shinostroenie, 1965. 211 p. (I-IRA 18:4)

BYALKOVSKAYA, V.S.; MANSUROV, A.M., inzh., retsenzent; BABENKO,  
V.A., dets., red.

[Economic problems of mechanization and automation in  
forging] Ekonomicheskie voprosy mekhanizatsii i avtoma-  
tizatsii v kuznechnom proizvodstve. Moskva, Mashino-  
stroenie, 1965. 203 p. (MIRA 18:7)

ZHEDYAYEVSKAYA, G.D., kand. tekhn. nauk; BABENKO, V.A.

New techniques in reconditioning parts using hard electrolytic iron.  
Mashinostroitel' no.10:9-10 O '65. (MIRA 18:10)

BEYNISH, A.M.; POKHODNYA, I.K.; BABENKO, V.F.

Rapid drying of heavily coated electrodes. Avtom. svar.  
16 no.1:87-89 Ja '63. (MIRA 16:2)

1. Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR.  
(Electrodes)  
(Kilns)

TITOV, Vitaliy Nikolayevich [Titov, V.M.]; BABENKO, V.G. [Babenko, V.H.],  
red.; LIMANOVA, M.I. [Lymanova, M.I.], tekhn.red.

[For the further economic development of Kharkov Province] Za  
dal'she pidnesennia ekonomiky Kharkivshchyny. Kharkiv, Kharkiv'ske  
knyzhkove vyd-vo, 1959. 45 p. (MIRA 13:4)

1. Sekretar Kharkiv'skogo obkomu KP Ukrainsi (for Titov).  
(Kharkov Province--Economic conditions)

BABENKO, V.G., red.; SHEVCHENKO, M.G., tekhn.red.

[A regional economic council and life; from practice of industrial administration in the Kharkov Economic Administrative Region. Collection of articles of articles] Sovnarkhoz i zhizn'; iz opyta upravleniya predpriyatiemi Khar'kovskogo ekonomicheskogo administrativnogo raiona. Sbornik statei. Khar'kov, Khar'kovskoe knishnoe izd-vo, 1959. 212 p. (MIRA 13:6)  
(Kharkov Economic Region--Economic policy)

GNATCHENKO, Valentin Afanas'yevich [Hnatchenko, V.P.]; BABENKO, V.G.  
[Babenko, V.H.], red.; SHEVCHENKO, M.G.[Shevchenko, M.H],  
tekhn. red.

[Indispensable principle of socialism] Neporushnyi pryntsyp  
soitsializmu. Kharkiv, Kharkiv's'ke knyzhkove vyd-vo, 1961. 41 p.  
(MIRA 15:1)

1. Sekretar' partiynogo komiteta Kharkovs'kogo kanatnogo zavoda  
(for Gnatchenko).

(Efficiency, Industrial)

BABENKO, Vladimir Grigor'yevich[Babenko, V.H.]; KOKOREVA, Ye.P.,  
red.; SHEVCHENKO, M.G.[Shevchenko, M.H.], tekhn. red.

[Tractor operator is not the same anymore; essay on machinery  
operators on collective farms]Ne toi teper traktoryst; narys  
pro kolhospnykh mekhanizatoriv. Kharkiv, Kharkivs'ke knizh-  
kove vyd-vo, 1962. 71 p. (MIRA 15:11)  
(Agricultural workers)

KHARAKOZ, A.Ye.; CHALOVA, Ye.P.; BABENKO, V.G.; BLESCHINSKIY, S.V.;  
MUSTAYEV, A.K.

Complex formation in the systems consisting of phosphoric acid -  
alkali - sesquioxides. Izv.AN Kir.SSR.Ser.est.i tekhn.nauk 4  
no.9:141-147 '62. (MIRA 16:4)  
(Phosphoric acid) (Alkalies) (Iron oxides)  
(Complex compounds)

BLESHINSKIY, S.V.; KHARAKOZ, A.Ye.; LUKIN, I.N.; BABENKO, V.G.; CHALOVA,  
Ye.P.; Prinimali uchastiye: ABRAMOVA, V.F.; VINOGRADOV, V.P.;  
USUBAKUNOV, M.; GORBUNOV, V.D.; OSIPOVA, T.P.; NAGAYEVA, A.G.;  
MEDVEDEVA, V.A.; ALTYNNIKOVA, P.M.

Fluosilicic method for separating rare-earth elements. Izv.  
AN Kir. SSR. Ser. i tekhn. nauk 5 no.4:23-24 '63.  
(MIRA 16:10)

L 3990-66	EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/ENA(h)/ETC(m)	WW/EM
ACC NR: AP5024781	UR/0021/65/000/009/1150/1152	29 26 DB
AUTHOR: Babenko, V. I.		
TITLE: On postbuckling deformation of <u>conical shells under torsion</u>	14	
SOURCE: AN UkrRSR. Dopovidi, no. 9, 1965, 1150-1152		
TOPIC TAGS: conical shell, thin shell, <u>shell buckling</u> , buckling stress, conical shell torsion, torsion angle, postbuckling torsion	14	
ABSTRACT: The postbuckling behavior of a shell having the shape of a frustum of a cone is discussed; the shell is twisted around its axis. The method used in this investigation was developed by A. V. Pogorelov in his two publications: 1) On the theory of convex elastic shells in postcritical state, Izd-vo KhGU, 1961; and 2) Cyclic shells under postcritical deformations, Izd-vo KhGU, 1963. It is assumed that the postbuckling (postcritical) deformation consists of geometric bending of the shell skin, and of the further development of the mode of wave forming which took place on the shell surface at the instant of buckling. The elastic strain energy and the angle of torsion are also composed of two parts: one, associated with the bending of the initial surface, the other - with strong local bending along the wave crests. The formulas for the elastic strain energy $U$ and the angle of torsion $\omega$ are given, and the determination of wave-forming and stress-distribution parameters by minimizing the expression for $U$ for the given $\omega$ is indicated, as well as the derivation of an expression for $U$ as a function of $\omega$ . The relationship between stresses and $\omega$ can be established from the equation of		
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ACC NR: AP5024781

equilibrium, and the lower buckling stress will be determined as the minimum stress which the shell can withstand under postbuckling deformation. A formula for the lower buckling stress of slightly tapered conical shells is given which is analogous to the corresponding formula for cylindrical shells. The possibility of using computers in solving the discussed variational problem is pointed out. Orig. art. has: 1 figure [VK] and 6 formulas.

ASSOCIATION: Fizyko-tehnichnyy instytut nyz'kykh temperatur AN URSR (Physicotechnical Institute of Low Temperatures, AN URSR)

SUBMITTED: 11Jul64

ENCL: 00

SUB CODE: AS

NO REF Sov: 004

OTHER: 000

ATD PRESS: 4120

BC  
Card 2/2

L-29526-66 EWP(k)/EWT(l)/EWT(m)/EWP(u)/EWP(v) IJP(c) EM/JW

ACC NR: AR6006202

SOURCE CODE: UR/0124/65/000/010/V013/V013

AUTHOR: Babenko, V. I.

34

35

TITLE: Supercritical deformations of a circular conic shell under external pressure and an axis compression

26

SOURCE: Ref. zh. Mekhanika, Abs. 10V108

REF SOURCE: Vestn. Khar'kovsk. un-ta. Ser. mekhan.-matem, no. 3, 1965,  
18-25

TOPIC TAGS: conic shell structure, shell deformation, shell theory, plane geometry

ABSTRACT: The plotting of a surface, isometric to the surface of a straight, circular cone is described in details. It is assumed, that the surface is divided into  $2^n$  cylindrical surfaces and that the  $n$  planes of a symmetry exist. The generatrices of the cylindrical surface are perpendicular to the plane of symmetry. The number of surfaces is assumed to be equal to the number of surfaces formed under critical condition. The energy of deformation is derived as the sum

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ACC NR: AR6006202

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of bending energy along the ribs and the bend of the shell outside this zone. (Pogorelov, A. V., Theory of convex elastic shells in a supercritical state Kharkov, Kharkov Univ., 1960.) The case of a uniform lateral and longitudinal compression is discussed. Formulas of critical loads for these cases are given. E. I. Grigolyuk

SUB CODE: 20 / SUBM DATE: none

Card 2/2 JS

ANTONOV, Igor' Vasil'yevich; BABENKO, Vitaliy Il'ich; OSTRYAKOV, Konstantin  
Igнат'yevich; BOMBARDIROV, P.P., inzhener, redaktor; BOBROVA, Ye.N.,  
tekhnicheskiy redaktor

[Progressive work organization of calcium coating shops] Perekovaia  
organizatsiya raboty kal'tsezalivochnogo tsekha. Moskva, Gos.  
transp.zhel-dor. izd-vo, 1956. 27 p. (MIRA 10:1)  
(Bearings (Machinery))

BABENKO, Vitaliy Il'ich; OSTRYAKOV, Konstantin Igant'yevich; BRAYLOVSKIY, N.G.,  
Inzh.red.; KHITROV, P.A., tekhn.red.

[Inspection and repair of railroad cars used in long freight trains;  
practices at technical inspection points on the Omsk, Sverdlovsk  
and southern railroad lines] Osmotr i remont vagonov v dlinnosostav-  
nykh gruzovykh poezdakh; opyt raboty peredovykh punktov tekhniches-  
kogo osmotra Omskoi, Sverdlovskoi i Iuzhnoi dorog. Moskva, Gos.  
transp. zhel-dor. izd-vo, 1957. 64 p. (MIRA 11:2)  
(Railroads--Cars--Maintenance and repair)

FABER KO, V. I.

"The Formation and Development of Reproductive Organs in Citrus Trees  
Under Indoor Conditions," Cand Biol Sci, Moscow Order of Lenin State U  
imeni M. V. Lomonosov, 24 Dec 54. (M, 15 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

USSR/Cultivated Plants. Subtropical. Tropical.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15821

Author : V.I. Babenko

Inst : The All-Union Scientific Research Institute for Tea and  
Subtropical Cultures and The Ukrainian Institute for  
Viticulture and Wine Making.

Title : The Setting and Differentiation of Fruit Buds in Lemon  
Plants in Ditches and Lemon Hot Frames.  
(Zakladka i defferntsatsiya plodovykh pochek u rasteniy  
limona v transheyakh i limonoriyakh).

Orig Pub : Byul. Bses. n.-i. in-ta chaya i subtrop. kul'tur, 1956,  
No 1, 113-126.

Abstract : Studies made at the Botanical Garden of Odessa University  
(1951-1954) and at the Ukrainian Institute for Viticulture  
and Wine Making (1952-1953) have determined that the

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USSR/Cultivated Plants - Subtropical. Tropical.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15821

setting of lemon fruit buds begins after their leaving the forced physiological state of quiescence in April. With an increase in the Glossy surfaces, the time when the active temperatures arrive is quickened. The light conditions of the winter period does not show any effect on fruit bud setting time. It is noted that the early setting of the fruit buds in the Chinese lemon lasts 4-6 days. A Period of quiescence is absent in the development of lemon fruit buds.

Card 2/2

BABENKO, V.I.

Development and differentiation of lemon flower buds in nurseries located in the South of the Ukrainian SSR. Dokl.AN SSSR 106 no.3: 559-561 Ja '56. (MLRA 9:6)

1. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I.Mechnikova.  
(Ukraine--Lemon) (Plants, Flowering of)

B. N. DKO, V. I.

Some theoretical deformations of cylindrical shells containing. Rep. No.  
UDC 621.372.17.01-1258-165.  
(USSR 1812)

Z. Fiziko-tehnicheskiy institut vysokikh temperatur AN UkrSSR.

VIASENKO, I.A.; BABENKO, V.I.

Physiological characteristics of durum winter wheat. Mauch. 28p.  
Od. ped. inst. 25 no.2:120-124 '61.  
(MIRA 18:2)

BABENKO, Vitaliy Il'ich; YOLOSHCHENKO, Nikolay Karpovich; FEL'DMAN,  
Moisey Froimovich; ALEKSEYEV, V.D., inzh., retsenzent;  
BRAYLOVSKIY, N.G., inzh., red.; VOROTNIKOVA, L.F., tekhn.red.

[Inspection and repair of freight cars in stations of mass  
loading and unloading] Osmotr i remont gruzovykh vagonov na  
stantsiiakh massovoi pogruzki i vygruzki; opyt Donetskoi do-  
rogi. Moskva, Transzheldorizdat, 1962. 49 p.

(MIRA 16:1)

(Railroads--Freight cars--Maintenance and repair)

KON'KOV, F.S., , kand. tekhn.nauk, dots.; DONTSOV, A.Ya., inzh.;  
YURCHENKO, I.F., inzh.; ANGELEYKO, V.I., retsenzent;  
~~BABENKO, V.I.~~ retsenzent; ZAPREVSKIY, G.S., retsenzent;  
KRIMANUS, G.Kh., retsaenzent; MANIN, I.I., retsenzent;  
NAUMOV, G.K., retsenzent; TOLSTOSHEY, A.N., retsenzent;  
TUCHKEVICH, T.M., retsenzent; FEDORETS, V.M., retsenzent;  
FEL'DMAN, M.F., retsenzent; FRANKOV, N.Ya., retsenzent;  
USENKO, L.A., tekhn. red.

[Establishing work norms in railroad transportation] Tekhnicheskoe normirovanie truda na zheleznodorozhnom transporte.  
Moskva, Transsheldorizdat, 1963. 366 p. (MIRA 16:9)  
(Railroads--Production standards)

BABENKO, V.I.

Amylase activity in citrus leaves in protected soils. Mauch. zap.  
Od. ped. inst. 25 no.2:115-119 '61.

(MIRA 18:2)

L 36348-66 EWT(d)/EWT(m)/EWP(k)/EWP(w)/EWP(v) IJP(c) EM/AW  
ACC NR: AP6007807

SOURCE CODE: UR/0021/66/000/002/0166/0168

AUTHORS: Babenko, V. I.

35

B

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSR  
(Fizyko-tehnichnyy instytut nyz'kykh temperatur AN UkrSR)

TITLE: Theory of supercritical deformations of spherical shells

26

SOURCE: AN UkrSR. Dopovidi, no. 2, 1966, 166-168

TOPIC TAGS: shell deformation, critical deformation, spherical shell

ABSTRACT: A method for refining Pogorelov's expression for the energy of supercritical deformations of shells is proposed. The improved equation for the lower critical pressure of a flat spherical shell is in good agreement with experimental data. The paper was presented by A. V. Pogorelov, Member of the Academy of Sciences, Ukrainian SSR. [Based on authors' abstract]

[NT]

SUB CODE: 20; SUBM DATE: 08Feb65/ ORIG REF: 003/

Card 1/1

115

TITOV, V.N.; BABENKO, V.M.

Basic structural characteristics of the Northern Kantau deposit  
in the Kansay ore province. Geol. rud. mestorozh. no.2:109-118  
Mr-Ap '61. (MIRA 14:5)

1. Institut tsvetnykh metallov im. M.I.Kalinina i Kansayskoye  
rudupravleniye. (Kara-Mazyr Mountain--Geology, Economic)

MAYMIND, S.I.; BABENKO, V.M.; BOL'SHAKOVA, N.A.

Methods of decreasing the net cost in factory production of  
antibiotics. Med. prom. 17 no.6:13-16 Je'63 (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

BABENKO, V.P.; BROUDO, V.L.; MEDVEDEV, V.S.

Cryostats used in optical measurements. Prib.i tekhn.eksp.no.3:99-100  
N-D '56. (MLRA 10:2)

1. Institut fiziki AM USSR.  
(Cryostat) (Optical measurements)

SOV/120-59-1-28/50

AUTHORS: Babenko, V. P., Broude, V. L., Medvedev, V. S., Prikhod'ko, A. F.

TITLE: Methods and Apparatus for Low Temperature Optical and Spectral Studies (Metody i apparatura nizkotemperaturnykh opticheskikh i spektral'nykh issledovaniy)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 115-120 (USSR)

ABSTRACT: Metallic cryostats for optical and spectral studies at liquid hydrogen and liquid helium temperatures have been developed by the present authors and are briefly described in this paper. The cryostats are designed for work on the absorption and luminescence of crystals in free and stressed state as well as for photoelectric low temperature studies. Figs 2 and 3 show the hydrogen and helium cryostats respectively. The cryostat shown in Fig 2 loses 1 litre of hydrogen in 18-20 hours. The cryostat shown in Fig 3 loses 1 litre of hydrogen in 30 hours or 1 litre of helium in 5 hours. Various attachments and specimen holders used in conjunction with these cryostats are shown in Figs 4-7. One of the features of the cryostats is their vacuum sealed windows of the type shown in Fig 1. The present cryostats are modified forms of the cryostats described by the present authors in Refs 6 and 7.

Card 1/2

SOV/120-59-1-28/50

Methods and Apparatus for Low Temperature Optical and Spectral Studies.

There are 7 figures and 8 references, of which 4 are Soviet,  
1 is French and the rest are English.

ASSOCIATION: Institut fiziki AN USSR (Institute of Physics of the  
Academy of Sciences of the USSR)

SUBMITTED: January 3, 1958

Card 2/2

BABENKO, V.P.; BRODIN, M.S.; SOSKIN, M.S.

Cryostat for dispersion measurements at low temperatures.  
Prib. i tekhn. eksp. 6 no.6:140-141 N-D '61. (MIRA 14:11)

1. Institut fiziki AN USSR.  
(Cryostat)

24.640  
9.110

44447  
5/120/62/000/006/029/029  
E039/E435

AUTHORS:

Babenko, V.P., Baysa, D.F.

TITLE:

A method of measuring nuclear quadrupole resonance spectra at low temperatures

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1962, 138

TEXT: Nuclear quadrupole resonance spectra can be measured in a metallic cryostat at the temperatures of liquid helium and hydrogen. The construction of the cryostat is based on a previously described model (V.P.Babenko, V.L.Broude, V.S.Medvedev, Prihot'ko, A.F., PTE, no.1, 1959, 115). The coil of the oscillator circuit 1 is submerged with the sample directly in liquid He and fixed to a rigid coaxial line constructed from German silver tube (30 mm diameter, 0.4 mm thick) 2 and a central copper conductor (0.9 mm diameter) 3. The oscillator-detector 4 is mounted on the upper part of the coaxial line using a teflon and resin seal, and the teflon coil holder 5 is attached to the bottom. As the length of the coaxial line is increased to 58 cm the frequency of the oscillator-detector is lowered and its range reduced. In order to change a sample the coaxial line is removed from the cryostat when warm, which is a

Card 1/2

A method of measuring ...

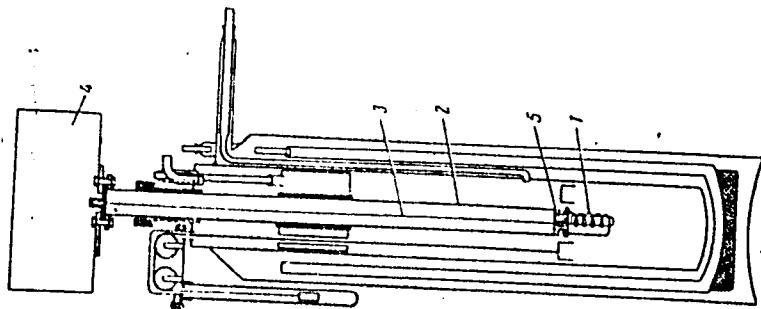
S/120/62/000/006/029/029  
E039/E435

disadvantage. However, a small modification to the upper part of the cryostat should enable the sample to be replaced in the cooled condition. The evaporation rate is about 1 litre in 6 to 8 hours. There is 1 figure.

ASSOCIATION: Institut fiziki AN UkrSSR (Institute of Physics

SUBMITTED: February 6, 1962

AS UkrSSR) *X*



Card 2/2

Fig.

RABENKO, V.P.

Accumulation factors of the layer  $hg$  of the series  $C_2^3$  in the  
western part of the Bokovo-Khrustal'skaya syncline in the Donets  
Basin. Geol.zhur. 22 no. 5890-93 '62. (MIRA 15:12)

1. Glavnaya geologicheskaya upravleniya UkrSSR.  
(Donets Basin--Coal geology)

DANIL'KO, V. S.  
Dipl.-Ingenieur

Dissertation: "Theory of Generators of Sawtooth Waves." Cand Tech Sci,  
Leningrad Inst of Aviation Instrument Building, Leningrad, 1953. (Referativnyy  
Zhurnal -- Fizika Moscow, Mar '54)

SO: SUW 213, 20 Sep 1954

BABENKO, V.S., kandidat tekhnicheskikh nauk.

Available gain in the brightness of a television image from the use  
of directed screens. Tekh.televid.no.5:20-28 '55. (MLRA 10:2)  
(Television--Receivers and reception)

6 (5)

SOV/112-57-5-11396

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 268 (USSR)

AUTHOR: Babenko, V. S.

TITLE: Calculation of Inductive Horizontal-Sweep Height Controllers  
(Raschet induktivnykh regul'atorov amplitudy strochnoy razvertki)

PERIODICAL: Tekhnika televideniya. M-vo radiotekhn. prom-sti SSSR, 1956,  
Nr 11, pp 3-21

ABSTRACT: A theoretical analysis was performed of the function of inductive horizontal-sweep controllers for TV sets. Three connection diagrams of adjustable inductances were examined: series, parallel, and differential. These values were determined: relative variation of the current double amplitude in deflecting coils; relative variation in accelerating voltage on the kinescope anode under certain conditions; and relative decrease of the maximum current in the anode in the deflecting coils as a consequence of insertion of a control inductance. A conclusion is made that the series-

Card 1/2

SOV/112-57-5-11396

**Calculation of Inductive Horizontal-Sweep Height Controllers**

type controllers are unpractical. Considerations about inductive-type controller design and approximate sample calculations of parallel and differential controllers are presented.

I.L.L.

Card 2/2

BABENKO, Valeriy Sergeyevich; EYSYMONT, L.O., red.; MALEK, Z.N., tekhn.red.

[Television and motion pictures] Televidenie i kino. Moskva,  
Gos.izd-vo "Iskusstvo." 1958. 222 p. (MIRA 12:5)  
(Motion pictures and television)

6,6000

80448  
SOV/112-60-2-6.1091

Translation from: Referativnyy zhurnal Elektrotehnika, 1960, Nr 2, p 356  
(USSR)

AUTHORS: Byalik, G.I., Babenko, V.S.

TITLE: A Code System of Color Television

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 23, pp 29 - 42

ABSTRACT: Chromatic diagram is divided into a number of zones (say 30); besides the brightness signal the zone number characterizing a color is transmitted. For transmitting the number an amplitude modulated subcarrier is used which can be within or without the spectrum of the brightness signal. For coding and decoding matrix circuits are used, as well as special electronic devices for division and multiplication. The narrowing of the frequency band is reached here at the expense of the chromaticity information.

A.K.K.

✓

Card 1/1

SOV/112/59-23-48694

Translation from: Referativnyy zhurnal Elektrotehnika, 1959, Nr 23, p 198,  
(USSR)

AUTHOR: Babenko, V.S.

TITLE: Calculation of Output Stages of a Frame Scan With a Transformer  
Output

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 23, pp 89 - 102

ABSTRACT: Problems of a joint work of deflection coils with an output tube  
are discussed. A formula is derived for the power yield of an  
output tube. It is pointed out that at a constant feeding  
voltage, a pentode switching makes it possible to obtain from a  
tube a power twice that yielded at a triode switching. The  
problem of the output transformer efficiency is considered. It  
is pointed out that the conditions of the maximum power yield  
in coils and those of the maximum stage efficiency do not co-  
incide. An example of calculation of the stage of a vertical  
sweep with a transformer output is given. Four references.

Card 1/1

V.A.K.



BABENKO, Valeriy Sergeyevich; BYALIK, G.I., retsenzent;  
KOSsov, G.Ya. nauchn. red.; FIKALEYeva, Ye.D., red.

[Optics of television systems] Optika televizionnykh  
ustroistv. Moskva, Izd-vo "Energiia," 1964. 255 p.  
(MIRA 18:1)

SHELUD'KO, V.M.; BABENKO, V.S.

Practical exercises in pharmacognosy. Farmatsev. zhur. 16  
no.4:40-41 '61. (MIRA 17:6)

1. Kafedra farmakognozii i botaniki Zaporozhskogo farmatsevticheskogo instituta.

BLESHEINSKIY, S.V.; KHARAKOZ, A.Ye.; ABRAMOVA, V.F.; VINOGRADOV, V.P.;  
BABENKO, V.T.; KACHKIMBAYEVA, S.A.; Prinimali uchastiye:  
USUBAKUNOV, M.; NAGAYEVA, A.G.; GORBUNOV, V.D.; MEDVEDEVA,  
V.A.; CHALOVA, Ye.P.; ALTYNNIKOVA, P.M.

Method for separating rare-earth elements based on the thermal  
dissociation of sulfates. Izv. AN Kir. SSR. Ser. est. i tekhn.  
nauk 5 no.4:25-26 '63. (MIRA 16:10)

BUD'KO, A.V.; BOGDANOV, G.I.; LEVITSKIY, D.Z.; DROBCT, A.S.; YAKOVENKO, K.F.;  
MARCHENKO, A.A.; MATVEYEV, I.K.; LECNOV, B.A.; BABENKO, V.T.

Pillar recovery in the Krivoy Rog Basin. Gor. zhur. no.5:22-24  
My '65. (MIRA 18:5)

1. Institut gornogo dela im. A.A.Skochinskogo, Moskva (for Bud'ko,  
Bogdanov). 2. Trest Leninruda (for Levitskiy). 3. Rudnik imeni  
R. Lyuksemburg (for all except Bud'ko, Bogdanov, Levitskiy).

ROMANKOV, P.G.; RASHKOVSKAYA, N.B.; BABENKO, V.Ye.; GOL'TSIKER, A.D.

Drying apparatus for carrying out processes in a fluidized  
bed. Khim.prom. no.11:822-827 N '62, (MIRA 16:2)  
(Drying apparatus)  
(Fluidization)

ROMANKOV, P.G.; RASHKOVSKAYA N.B.; GOL'TSIKER, A.D.; BABENKO, V.Ye.

Fluid-bed dryers for polymeric materials. Plast.massy no.12:41-46  
'63. (MIRA 17:2)

MEDVEDEV, P.I.; Prinimali uchastiye: BABENKO, Ye.; BORODENKO, V.I.

Determining the electrokinetic potential of the particles of  
nuclear sols. Lakokras.mat.i ikh prim. no.6:50-52 '62.

(MIRA 16:1)

(Paint materials--Electric properties)

MEDVEDEV, P.I.; Prinimala uchast'ye BABENKO, Ye.I.

Stability of titanium dioxide nuclei sols prepared from titanium tetrachloride. Lakokras.mat. i ikh. prim. no.4:38-39 '62.  
(MIRA 16:11)

ROMANENKO, A.I.; RABENKO, V.G.

Transducers for the continuous control of metal in rolling mill  
rolls. Stal' 25 no.5:445-446 May 1985.  
(MIRA 18:6)

9(6)

PHASE I BOOK EXPLOITATION

SOV/1865

Babenko, Yuriy Aleksandrovich, Grigoriy Stepanovich Gladkov, Grigoriy Afanas'yevich Klimenko, Vladimir Petrovich Naumchenko, and Aleksandr Ignat'yevich Khristich

Elektryfikatsiya Ukrayiny za roky Radyans'koy vladys (Electrification of the Ukraine During the Years of the Soviet Regime) Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1958. 150 p. 3,000 copies printed.

Resp. Ed.: I.T. Shvetsova, Academician, UkrSSR Academy of Sciences; Ed.: M. Pysarenko; Tech. Ed.: Z. Vortman.

PURPOSE: The book is intended for the general reader.

COVERAGE: The authors discuss electrification of the national economy of the Ukraine during the prerevolutionary period and during the Soviet Five-Year Plans. Achievements of the Soviet regime are noted. No personalities are mentioned. There are no references.

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Card 2 / 3

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AVAILABLE: Library of Congress (TK 86.U5E35)	
Card 3/3	JP/fal 7-20-59

L 29952-66 EWT(d)/EWT(m)/1/DPF(f) MM/WE  
ACC NR: AR6003722

SOURCE CODE: UR/0285/65/000/009/0018/0018

AUTHOR: Babenko, Yu. A.; Batyuk, G. S.; Kondak, M. A.

68

B

TITLE: Study of the combustion chamber elements of a stationary gas turbine operating on natural gas

SOURCE: Ref. zh. Turbostroyeniye, Abs. 9.49.119

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. Teploenerg., no. 1, 1964, 45-49

TOPIC TAGS: gas turbine engine, ~~engine system~~, combustion kinetics, combustion research, combustion chamber, fuel consumption, natural gas

ABSTRACT: The simultaneous control of fuel consumption and primary air is an important factor when natural gas is used in a mixture with air. However, this control is not given enough consideration as yet when applied to stationary gas turbines. The recording front devices with a central gas supply are studied, and work on the possibility of technological application of kinetic methods of gas combustion was carried out. The study showed a high degree of combustion stability at a mixture velocity of 100 to 120 m/sec. and high operating characteristics for

Card 1/2

L 29952-66

ACC NR: AR6003722

plane and conical screens which facilitate the formation of short tongues (0.1 to 0.2 m). A method of calculation is developed.

T. Gonikberg

SUB CODE: 21 / SUBM DATE: none

Card 2/2 CC

BABENKO, Yuriy Aleksandrovich; GLADKOV, Grigoriy Stepanovich; KLYMENKO,  
Grigoriy Afanas'yevich; NAUMCHENKO, Vladimir Petrovich; KHRISTICH,  
Aleksandr Ignat'yevich; PISARENKO, M., red.; GUSAROV, K., tekhn.  
red.

[Electrification of the Ukraine] Elektryfikatsiia Ukrayny. Derzh.  
vyd-vo tekhnichnoi lit-ry URSR, 1960. 274 p. (MIRA 14:8)  
(Ukraine—Electrification)

STOLYAR, V.S.; BABENKO, Yu.A.; KRYZHANOVSKIY, V.N.

Problems concerning combustion in block combustion chambers of  
gas turbine systems. Energ. i elektrotekh. prom. no.3:20-24  
J1-S '63. (MIRA 16:10)

1. Kiyevskiy politekhnicheskiy institut.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820010-7

...to the central gas supply. Energ. (MIR 13:5)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102820010-7"

AYZENBERG, B.L., kand. tekhn. nauk; BABENKO, Yu.L., inzh.

Selectivity of PK safety fuses and current-overload relays. Izv.  
vys. ucheb. zav.; energ. no. 1:73-75 Ja '58. (MIRA 11:7)

1. Leningradskiy inzhenerno-ekonomicheskiy institut (for Ayzenberg).
2. Leningradskaya vysokovol'tnaya set' (for Babenko)  
(Electric fuses) (Electric relays)

BABENKO, YU. S.

"A Variant of Potato Bacillus Which Is an Antagonist of Dysentery Bacteria." Cand Med Sci, Dnepropetrovsk State Medical Inst, Dnepropetrovsk, 1953. (RZhBiol, No. 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)  
SO: Sum. No. 556 24 Jun 55

BABENKO, Yu. S.

USSR/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biol., № 10, 1958, 43118

Author : Babenko, Yu.S.

Inst :

Title : A Variant of Potato Bacillus as Antagonist to Dysentery  
Bacilli.

Orig Pub : Sb. nauchn. rabot. Dnepropotr. med. in-t, 1956, 1, 7.

Abstract : No abstract.

Card 1/1

BEKAURI, N.V.; BABENKO, Z.I.; ZHUKOVA, G.N.; MOISEYeva, Ye.I.

Effect of an interruption of the central pathways of the sensory innervation of the eye on the secretory activity of the ciliary body. Fiziol.zhur. 51 no.3:325-329 Mr '65.

(MIRA 18:5)

I. laboratoriya fiziologii vegetativnoy nervnoy sistemy i nervnye profiki Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.

BABENKO, Z.S.

USSR/General and Special Zoology. Insects. Injurious Insects and Ticks. Pests of Fruit and Berry Crops

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 49617

Author : Babenko Z.S.

Inst : Tomsk University

Title : The Principal Pests of Fruit-Berry Crops in Tomskaya Oblast and Their Control

Orig Pub : V sb.: Vopr. bor'by s vredit.-bolznyami i sor-nyakami s.-kh . rast. v Tomskoy obl., Tomsk, Un-t, 1957, 29-36

Abstract : A brief enumeration of the chief pests of fruit-berry crops, their biology, the damaged crops and recommended measures for the protection of fruit-berry plantings is given.

Card : 1/1

BABENKO, Z.S.

Mass multiplication of *Orygia gonostigma* F. in Tomsk. Biul. Sib. bot.  
sada no. 5:79 '58. (MIRA 12:11)

1. Sibirskiy botanicheskiy sad pri Tomskom gosuniversitete im.  
V.V. Kuybysheva.  
( Tomsk--Moths) (Fruit--Diseases and pests)

KOVALENOK, A.V.; BABENKO, Z.S.

First monograph on enemies of the tent caterpillar Dendrolimus  
sibiricus. Izv. SO AN SSSR no.12. Ser. biol.-med. nauk no.3:  
150-151 '63. (MIRA 17:4)

BABENKOV, A.N.

Babenkov, A.N. and Sivolap, N.K., "Production Tests of the 'PR' automatic regulator (Yalta Tobacco and Fermentation Plant)," Tabak, [Tobacco] 1953, No 4, pages 10-16.

BABENKOV, A. F.

Griffin wheels; the technology of casting and the technique of inspection. Moskva,  
Transzheldorizdat, 1942. 102 p. (48-32883)

TF383.B3

1. BABENKOV, I.
2. USSR 600
4. Seed Industry
7. Results of seed culture on a collective farm, Kolkh. proizv, 13, No. 1, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

BAGIN, B.P., inzh.; BABENKOV, I.S., inzh.

Recording the motion path of excavator buckets. Stroi. i dor.  
mashinostr. 4 no.6:7-8 Je '59. (MIRA 12:8)  
(Excavating machinery)

KHESIN, G. L.; BABENKOV, I. S.; IVANOV, K. I.; MEDVEDEV, I. F.

Photoelastic method of modeling the stress state of a drill and  
a rock. Gor. zhur. no.10:30-35 0 '62. (MIRA 15:10)

(Boring machinery) (Rocks--Testing)  
(Photoelasticity)

KHESIN, Gennadiy L'vovich; BABENKOV, Igor' Sergeyevich; IVANOV,  
Konstantin Ivanovich; MEL'NIKOV, Ye.A., otv. red.;  
LEDOVSKAYA, V.V., red.; IVLEVA, I.P., red.

[Stress distribution in a boring instrument and in rock;  
static and dynamic investigation by the photoelastic method]  
Raspredelenie napriazhenii v burovom instrumente i porode;  
staticheskie i dinamicheskie issledovaniia metodom foto-  
uprugosti. Moskva, TSentr. nauchno-issl. in-t informatsii i  
tekhniko-ekon. issledovaniii ugol'noi promyshl., 1963. 89 p.  
(MIRA 17:4)

BABENKOY, Ivan Vasil'yevich

[How to get high yields of millet] Kak vyrastit' vysokii urozhai  
prosa. [Kuibyshev] Kuibyshevskoe kn-vo, 1955. 28 p. (MLRA 9:11)  
(Millet)

25158

S/021/61/000/004/010/013  
D213/D303

3.1730

AUTHORS: Braude, S.Ya., Corresponding Member AS UkrSSR  
Nen , A.V., Zhuk, I.M., and Babenkov, K.A.

TITLE: Spectrum of discrete source of the cassiopeia-A  
cosmic radio-radiation at frequencies below 30 Mc/s

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovidiv, no. 4,  
1961, 469 - 472

TEXT: The aim of the article was to provide additional observations of the flux density of radio-sources Cassiopeia-A for the frequencies in the range 19.5 - 31 Mc/s, and to establish that the spectral index equals zero. It is assumed that the absorption of ionized hydrogen HII is the cause of such a change. V.A. Razin (Ref. 5: Radiofizika, 3, 584, 1960) has shown that absorption in hydrogen HII cannot be responsible for such a change in  $\alpha$ . The author made his observations from May to September 1960. He used two broadband aerials, 5 m apart, each containing four rows, each row being 5.7m apart. Each row consists of six oscillators (5.5 m in length) pla-

Card 1/3

2558

S/021/61/000/004/010/013  
D213/D303

Spectrum of discrete source ...

ced from east to west. Each oscillator is a horizontal broadbanded dipole consisting of 18 radii situated on the cylinder with a diameter of 1 m. They were placed 2.7 m over the metallized earth. 160 measurements in the range 19.5 - 31 Mc/s of the flux density of the radio-source Cassiopeia-A were made by interferometric radio telescope. To find the flux density  $I_k$  the following formula was used:

$$I_k = \frac{\eta P}{\Delta f} A_e \quad (1)$$

where  $\Delta f$  = the width of the band;  $P$  the difference between a) the power of the galactic ground together with the discrete source and b) the power of the galactic ground only,  $A_e$  - effective area of the aerial;  $\eta$  - coefficient for the whole radio-telescope (not less than 70 %) [Abstractor's note:  $A_e$  proved to be practically independent of the wavelength and is approximately equal to  $220 \text{ m}^2$ ]. The results of research are given, showing the relation between

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Spectrum of discrete source ...

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the flux density and the frequency as calculated by different authors. It reveals that the spectral index approximately equals zero, except for three values of  $\nu$ : 16.0, 19.5 and 22.5 Mc/s. It is stated that it would be of interest to carry out research on the spectrum of Cassiopeia-A and Cygnus-A in the range 10 to 100 Mc/s. There are 2 figures and 10 references: 6 Soviet-bests and 4 non-Soviet-bests. The 4 most recent references to the English-language publications read as follows: G.R. Whitfield, M.M.R.A.S., III, 680, 1957; G.R. Whitfield, Paris Symp. on Radio Astronomy, Stanford University Press, Sec. 27, 1957; H.W. Wells, Fire, 46, 1958; 1958 and A.C.R. Lovell and H.W. Wells, M.M.R.A.S. III, 1961.

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1. Institut radiofiziki i elektroniki AN USSR.

(Stars-Spectra)  
(Radio astronomy)